In the Claims:

No amendments to the claims are presented.

1. (Previously presented) An electronic circuit adapted to process a plurality of types of instruction, the electronic circuit comprising:

first and second pipeline stages, each of the first and second pipeline stages generating pipeline data;

a latch positioned between the first and second pipeline stages; and wherein the electronic circuit is controlled by a control signal based on a latency period of each respective instruction of said plurality of types of instruction, said electronic circuit being controlled to operate in a normal mode when processing a first type of instruction in which the latch is opened and closed in response to an enable signal, and a reduced mode including a truncated passage when processing a second type of instruction in which the enable signal is overridden by the control signal so that the latch is held open for the generated pipeline data to propagate, independent of the enable signal, through the latch; and

wherein the first type of instruction requires processing by the first and second pipeline stages and the second type of instruction requires processing by the second pipeline stage.

- 2. (Previously presented) The electronic circuit as claimed in claim 1, further comprising a latch control circuit connected to the latch, the latch control circuit configured to provide the enable signal to the latch to control the latch with the enable signal when the electronic circuit is in the normal mode, and configured to hold the latch open by preventing the enable signal from being provided to the latch when the electronic circuit is in the reduced mode.
- 3. (Previously presented) The electronic circuit as claimed in claim 2, wherein the latch control circuit receives the control signal indicating whether the electronic circuit operates in the normal mode or in the reduced mode.

4. (Previously presented) The electronic circuit as claimed in claim 1, wherein the electronic circuit is adapted to process a third type of instruction, wherein the third type of instruction does not require processing by the second pipeline stage.

- 5. (Previously presented) The electronic circuit as claimed in 4, wherein the electronic circuit is adapted to operate in the normal mode until an instruction of the third type of instruction is processed.
- 6. (Previously presented) The electronic circuit as claimed in claim 5, wherein, after the instruction of the third type of instruction is processed, the electronic circuit is adapted to operate in the reduced mode if an instruction, following the instruction of the third type of instruction, is of the second type of instruction or the third type of instruction.
- 7. (Previously presented) The electronic circuit as claimed in claim 4, wherein the electronic circuit is adapted to operate in the reduced mode until an instruction of the first type of instruction is processed.
- 8. (Previously presented) The electronic circuit as claimed in claim 1, wherein the first type of instruction includes a load instruction, and wherein the first and second pipeline stages are asynchronous pipeline stages that are each controlled responsive to different enable signals.
- 9. (Previously presented) The electronic circuit as claimed in claim 1, wherein the second type of instruction includes an arithmetic computation instruction.
- 10. (Previously presented) The electronic circuit as claimed in claim 4, wherein the third type of instruction includes compare, store, branch and jump instructions.

11. (Previously presented) The electronic circuit as claimed in claim 1, wherein the first pipeline stage comprises a data memory.

- 12. (Previously presented) The electronic circuit as claimed in any claim 1, wherein the second pipeline stage comprises a write back stage.
- 13. (Previously presented) A method of operating an electronic circuit, the electronic circuit being adapted to process a plurality of types of instruction, the electronic circuit comprising first and second pipeline stages and a latch positioned between the first and second pipeline stages, the method comprising:

controlling modes of the electronic circuit in response to a control signal that is based on a latency period of each respective instruction of said plurality of types of instruction, said electronic circuit being in a normal mode when processing a first type of instruction in which the latch is opened and closed in response to an enable signal, and a reduced mode including a truncated passage when processing a second type of instruction in which the enable signal is overridden by the control signal so that the latch is held open for the second type of instruction to propagate, independent of the enable signal, through the latch; wherein the first type of instruction requires processing by the first and second pipeline stages and the second type of instruction requires processing by the second pipeline stage.

- 14. (Previously presented) The method as claimed in claim 13, wherein controlling the electronic circuit further includes processing a third type of instruction, wherein the third type of instruction does not require processing by the second pipeline stage.
- 15. (Previously presented) The method as claimed in claim 14, further comprising operating the electronic circuit in the normal mode until an instruction of the third type of instruction is processed.

16. (Previously presented) The method as claimed in claim 15, wherein, after processing the instruction of the third type of instruction, the method further comprises operating the electronic circuit in the reduced mode if an instruction, following the instruction of the third type of instruction, is of the second type of instruction or the third type of instruction.

- 17. (Previously presented) The method as claimed in claim 14, further comprising operating the electronic circuit in the reduced mode until an instruction of the first type of instruction is processed.
- 18. (Previously presented) The method as claimed in claim 13, wherein the first type of instruction includes a load instruction, and wherein the enable signal is provided to the latch in the normal mode to open and close the latch, and the control signal prevents the enable signal from being provided to the latch in the reduced mode.
- 19. (Previously presented) The method as claimed in claim 13, wherein the second type of instruction includes an arithmetic computation instruction, and wherein the first and second pipeline stages are asynchronous pipeline stages that are each controlled responsive to different enable signals.
- 20. (Previously presented) The method as claimed in claim 14, wherein the third type of instruction includes compare, store, branch and jump instructions.